CRS Build 6.1 Patch Release Installation Instructions

Revised: 16 March 1999...awj

The CRS Build 6.1 software patch release fixes certain problems which were determined to be of a high priority by the CRS Program Office and the Office of Meteorology. Release Notes for Build 6.1 can be viewed on the CRS web page at:

http://www.nws.noaa.gov/oso/oso1/oso12/crs.htm

The following are the installation instructions for the CRS Build 6.1 software patch release.

This procedure has been tested at NWS Headquarters and WFO Birmingham, AL, WFO Charleston, WV, WFO Oxnard, CA and WFO Pleasant Hill, MO.

IMPORTANT NOTE: The CRS system must be interfaced to the site AWIPS LAN. If the CRS system is *NOT* interfaced to the site AWIPS LAN, do *NOT* proceed until the connection has been made. Reference the CRS "*System Administration Manual*, dated June 1999, Appendix K - AWIPS/CRS Interface Setup Procedures" and *"Engineering Handbook 7 (EHB-7), Modification Note 40*, dated December 1999, Attachment B - Lantronix LB2 LAN Bridge Reconfiguration Procedure".

IMPORTANT NOTE: The CRS system must be running in a normal configuration, ie. 0MP as the Master MP and 5MP as the Shadow MP. All FEP's must be running in a normal configuration, ie. 4BKUP should not be an active FEP. If the CRS system is *NOT* running in a normal configuration do *NOT* proceed until the system has been reconfigured *AND* is operational in a normal mode.

IMPORTANT NOTE: You must be "*root*" user to execute this procedure.

IMPORTANT NOTE: Please make every effort to schedule this installation between 0700 and 1530 Eastern Time, Monday thru Friday (excluding Federal Holidays), in order to maximize the support available from the CRS Program Office.

IMPORTANT NOTE: If the CRS Application is reinstalled, for any reason:

A.   The application software shall be installed to **all processors** from the Build 6.0 CD.
B.   This Build 6.1 software patch installation will then be reinstalled as directed in this
         procedure.

IMPORTANT NOTE: The estimated time to execute this procedure is thirty (30) minutes.

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Procedure:

1. On 0MP, stop the CRS application from the "*System -> Stop System*" menu selection and wait for the CRS system to stop.

2. On 0MP, select the "*Exit to Unix*" menu item from the '*System*' menu.

3. At the "CRS Login Screen", log into the CRS system as user "root".

4. Open a "*Terminal*" window from the *Unixware Desktop* "*Applications*" window.

5. At the command line prompt, enter the following commands (as marked in **bold**) to ftp transfer the Build 6.1 patch file from the AWIPS NOAA1 Ftp server:

   0MP{root} **ftp 165.92.30.15** *<----- IP address of NOAA1 server.*
   Connected to 165.92.30.15.
   220 NOAA1 FTP server (Version 1.7.112.4 Wed May 20 06:20:05 GMT 1998) ready.
   Name (165.92.30.15:root): **ftp** *<---- Login as "ftp" user.*
   331 Guest login ok, send ident as password.
   Password: **4Awips!** *<---- NOAA1 "ftp" user password.*
   230 Guest login ok, access restrictions apply.
   ftp> **cd crs** *<---- Change to the remote "crs" directory.*
   250 CWD command successful.
   ftp> **lcd /crs** *<--- Change to the local "/crs" directory on the 0MP node.*
   Local directory now /crs
   ftp> **bin** *<--- Change to binary transfer mode.*
   200 Type set to I.
   ftp> **get b61patch.tar** *<--- ftp "get" the Build 6.1 patch file.*
   local: b61patch.tar remote: b61patch.tar
   200 PORT command successful.
   150 Opening BINARY mode data connection for b61patch.tar (2273280 bytes).
   226 Transfer complete.
   2273280 bytes received in 5 seconds (4.5e+02 Kbytes/s)
   ftp> **bye** *<--- Log off of the NOAA1 ftp server.*
   221 Goodbye.
   0MP{root}

6.	At the command line prompt, enter the following commands (as marked in **bold**) to install the Build 6.1 software patch release on the 0MP and 5MP nodes. Note the sample output.

0MP{root} **cd /crs**
0MP{root} **tar xvf b61patch.tar**
x /crs/b61binaries, 36 bytes, 1 tape block
x /crs/b61cleanup.sh, 3374 bytes, 7 tape blocks
x /crs/b61install.sh, 7302 bytes, 15 tape blocks
x /crs/b61p.tar.Z, 2244882 bytes, 4385 tape blocks
0MP{root} **./b61install.sh**

The following is a sample output from the installation script on a *NWSHQ* system:

0MP{root} ./b61install.sh
CRS Build 6.1 Installation - Thu Mar 9 07:31:25 2000

Saving the Build 6.0 files

0MP File ci_emerg saved as /crs/bin/ci_emerg.b6
5MP File ci_emerg saved as /crs/bin/ci_emerg.b6
0MP File cp_ri saved as /crs/bin/cp_ri.b6
5MP File cp_ri saved as /crs/bin/cp_ri.b6
0MP File cp_ro saved as /crs/bin/cp_ro.b6
5MP File cp_ro saved as /crs/bin/cp_ro.b6
0MP File crs_site saved as /crs/bin/crs_site.b6
5MP File crs_site saved as /crs/bin/crs_site.b6
0MP File ps_ss saved as /crs/bin/ps_ss.b6
5MP File ps_ss saved as /crs/bin/ps_ss.b6
0MP File lx300 saved as /etc/lp/interfaces/lx300.b6
5MP File lx300 saved as /etc/lp/interfaces/lx300.b6
0MP File CI_emerg.xdr saved as /crs/data/CI/resources/CI_emerg.xdr.b6
5MP File CI_emerg.xdr saved as /crs/data/CI/resources/CI_emerg.xdr.b6
Installing the patch files on 0MP

x /crs/bin/ci_emerg, 2222252 bytes, 4341 tape blocks
x /crs/bin/cp_ri, 176080 bytes, 344 tape blocks
x /crs/bin/cp_ro, 742788 bytes, 1451 tape blocks
x /crs/bin/crs_site, 767104 bytes, 1499 tape blocks
x /crs/bin/ps_ss, 1276732 bytes, 2494 tape blocks
x /crs/data/CI/resources/CI_emerg.xdr, 16309 bytes, 32 tape blocks
x /etc/lp/interfaces/lx300, 27922 bytes, 55 tape blocks
0MP Build 6.1 binaries installed

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5MP Build 6.1 ci_emerg installed
5MP Build 6.1 cp_ri installed
5MP Build 6.1 cp_ro installed
5MP Build 6.1 crs_site installed
5MP Build 6.1 ps_ss installed
5MP Build 6.1 printer interface lx300 installed
5MP Build 6.1 CI_emerg.xdr file installed
Done...
CRS Build 6.1 has been installed - Thu Mar  9 07:32:05 2000

0MP{root}
```

7.   Wait for the installation script to finish running, noting any ERROR message(s) that may appear. If ERROR messages are displayed, inspect the */crs/b61install.log* file for an explanation of the error condition. Notify the CRS Program Office if you encounter any errors.

8.   Inspect the updated "*HELP_ABOUT*" file and verify the "APPLICATION VERSION" number is 6.1.

```
0MP{root} cat HELP_ABOUT
APPLICATION NAME:       Console Replacement System (CRS)
APPLICATION VERSION:   6.1 <--- Verify version 6.1 here.
APPLICATION INSTALLED: Wed Mar 08 14:41:29 EST 2000
---------------------------------------------------------
DATABASE (ASCII) PATH:  /crs/data/SS/GENERIC_MOD.ASC
DATABASE VERSION:       2
DATABASE CONVERTED:   Thu Nov 04 10:43:15 EST 1999
CRS_SITE PERFORMED:      Tue Mar 07 09:09:31 EST 2000
CRS_SITE FUNCTION:       Full Compile
---------------------------------------------------------
SITE IDENTIFIER:         NWSHQ
SITE NUMBER:
AWIPS REFERENCE:
SITE IP ADDRESS:         165.92.20.0
LOCATION, STATE:        Silver Spring, MD
GEOGRAPHIC REGION:     Eastern
---------------------------------------------------------
CommPower, Inc. 1998-1999
---------------------------------------------------------
0MP{root}
```

9. **If NO errors were reported** reboot both the 0MP and the 5MP nodes:

    0MP{root} **cd /**
    0MP{root} **rsh 5MP /sbin/shutdown -y -g0 -i0**
    0MP{root} **/sbin/shutdown -y -g0 -i0**

10. Wait for the 0MP and 5MP nodes to reboot. **Note** that the keyboard *<Enter>* key must be pressed on each processor in order for the processors to complete the reboot process. Log on to the 0MP node as user "admin" and start the CRS application. Verify normal operation of the CRS system. Notify the CRS Program Office if you encounter any problems returning the system to operation.

11. Once normal operation of the CRS system has been verified, a clean up script shall be run by the "root" user. Open a "*Unix Shell*" window from the "*Maintenance*" menu.

12. At the command prompt enter the following commands (as marked in **bold**):

    0MP{admin} **su -**
    Enter the "root" password. Do NOT forget the "**-**" in the command.
    Select **"n"** when the system asks if the "Desktop" should be displayed.

    0MP{root} **cd /crs**
    0MP{root} **./b61cleanup.sh**

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The following is a sample output from the cleanup script on a *NWSHQ* system:

```
0MP{root} ./b61cleanup.sh
CRS Build 6.1 Installation Cleanup - Thu Mar  9 07:37:06 2000

Removing the Old Build 6.0 files

0MP Removed File ci_emerg.b6
5MP Removed File ci_emerg.b6
0MP Removed File cp_ri.b6
5MP Removed File cp_ri.b6
0MP Removed File cp_ro.b6
5MP Removed File cp_ro.b6
0MP Removed File crs_site.b6
5MP Removed File crs_site.b6
0MP Removed File ps_ss.b6
5MP Removed File ps_ss.b6
0MP Removed File lx300.b6
5MP Removed File lx300.b6
0MP Removed File CI_emerg.xdr.b6
5MP Removed File CI_emerg.xdr.b6
Done...
CRS Build 6.0 Saved Files Have Been Removed - Thu Mar  9 07:37:14 2000
CRS Build 6.1 Installation Cleanup Complete...

0MP{root}
```

Wait for the cleanup script to finish running, noting any ERROR message(s) that may appear. If ERROR messages are displayed, inspect the */crs/b61clean.log* file for an explanation of the error condition. Notify the CRS Program Office if you encounter any errors.

13.   **If NO errors were reported**, at the command prompt enter the following commands:

```
0MP{root} exit
0MP{admin} exit
```

This completes the installation of the CRS Build 6.1 software patch release. Notify the *Regional CRS Focal Point* via cc:Mail/email when the CRS Build 6.1 software has been installed.